

## **APPENDIX I - EXEMPLARY JAVA CODE**

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```
public abstract class HardwareRegistry
{
5    // This is the singleton hardware registry
    private static HardwareRegistry hwRegistry= null;

    // Prevents an application from instantiating a Hardware Registry
    protected HardwareRegistry() {}

10   // Get the singleton instance of the hardware registry, create it only if necessary.
    public HardwareRegistry getInstance()
    {
15        if(hwRegistry != null)
            return hwRegistry;
        else {
            // take steps to instantiate the hwRegistry, well known in the arts
            return hwRegistry;
        }
20    }

    // Lookup any hardware options belonging to a hardware option type
    public HardwareOption [ ] findHardwareOptions(String optionTypeName)
    {
25        // Take steps to search the hardware registry database for optionTypeName
        // Return null if not found or the array of found hardware options,
        }

    }

    public Interface HardwareOption
30    {
        // Get the well known string representing the hardware option type
        public String getOptionTypeName();

        // Get the name of any emdedded device type specific association
        public String getOptionAssociationName();

35        // Get the name of the Java permission required to call getAPI
        public String getOptionPermission();
    }
```

```
// Get a reference to the API that accesses the actual hardware
// associated with the option
public Object getAPI();
```

5

```
// get the version number of the API
public int getVersionNumber();
```

}

10